

Install Memory Modules in an MCS 7835, MCS 7845, MCS 7855, or MCS 7865 Series Server

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Introduction

Prerequisites

Requirements

Components Used

Conventions

Install Replacement SDRAM Memory Module(s) in an MCS 7835I–n.n–ECS1, MCS 7845I–n.n–ECS1, or MCS 7845I–n.n–ECS2 Server

Install DIMMs in the MCS 7835I or MCS 7845I System Board

Install Replacement SDRAM Memory Module(s) in an MCS 7835H–n.n–ECS1, MCS 7845H–n.n–ECS1, or MCS 7845H–n.n–ECS2 Server

Install DIMMs in the MCS 7835H or MCS 7845H System Board

Install Replacement SDRAM Memory Module(s) in an MCS 7855I–n.n–ECS1, MCS 7855I–n.n–ECS2, MCS 7865I–n.n–ECS1, or MCS 7865I–n.n–ECS2 Server

Install DIMMs in the MCS 7855I or MCS 7865I System Board

Related Information

Introduction

This document provides summarized information and instructions for replacing memory modules (SDRAM) in the following Cisco servers:

- Cisco Media Convergence Server (MCS) models based on the IBM xSeries–345:
 - ◆ MCS 7835I–n.n–ECS1
 - ◆ MCS 7845I–n.n–ECS1
 - ◆ MCS 7845I–n.n–ECS2
- Cisco MCS server models based on the Hewlett–Packard model DL380–G3:
 - ◆ MCS 7835H–n.n–ECS1
 - ◆ MCS 7845H–n.n–ECS1
 - ◆ MCS 7845H–n.n–ECS2
- Cisco MCS server models based on the IBM xSeries–255:
 - ◆ MCS 7855I–n.n–ECS1
 - ◆ MCS 7855I–n.n–ECS2
 - ◆ MCS 7865I–n.n–ECS1
 - ◆ MCS 7865I–n.n–ECS2

Note: n.n is used above to denote processor speed. Processor speed may vary depending on when you purchased your server.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

Applicability of this document is restricted to the specific Cisco servers listed in the Introduction.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

For more information on document conventions, refer to the Cisco Technical Tips Conventions.

Install Replacement SDRAM Memory Module(s) in an MCS 7835I–n.n–ECS1, MCS 7845I–n.n–ECS1, or MCS 7845I–n.n–ECS2 Server

Suitable memory Field Replacement Units (FRUs) can be purchased from Cisco using the following part numbers:

- MEM–7835I–2.4–256=
- MEM–7835I–2.4–512=

Memory can only be installed as a pair of matched dual inline memory modules (DIMMs). Both DIMMs in a pair must be identical to each other with respect to size, speed, type, and technology. The second pair does not have to be identical to the first pair. If you do not purchase memory through Cisco, you can use DIMM pairs from different manufacturers if necessary, as long as they meet the following requirements:

- JEDEC standard PC2100.
- Registered (address/control bus delay registers at inputs and outputs).
- Double–Data Rate (DDR).
- Error–Correcting Code (ECC).
- 266 MHz (inherent to PC2100) data rate.
- CL2.5 (Column Address Strobe clock cycle latency value).
- 2.5Vdc.

The server supports up to four 2 GB memory modules, yielding a potential maximum of 8 GB. However, the operating system software delivered with your Cisco Unity system can physically address a maximum of 4 GB.

Install DIMMs in the MCS 7835I or MCS 7845I System Board

Follow this procedure to install DIMMS in the MCS 7835I or MCS 7834I system board.

1. Read the manufacturer safety information and installation guidelines that were included with the DIMM pair(s).
2. Remove the top cover.
3. Determine the location for the new DIMM pair(s): J1 and J2 for the first pair, J3 and J4 for the second

pair.

4. Install the DIMM pair(s) in the proper connectors.
5. Save the new configuration information only if you are replacing a faulty DIMM that was marked as Disabled in the Configuration Setup Utility program Memory Settings menu. In this case, re-enable the memory row or reload the default memory settings.

Install Replacement SDRAM Memory Module(s) in an MCS 7835H–n.n–ECS1, MCS 7845H–n.n–ECS1, or MCS 7845H–n.n–ECS2 Server

Suitable memory Field Replacement Units (FRUs) can be purchased from Cisco using the following part numbers:

- MEM–7835H–2.4–256=
- MEM–7835H–2.4–512=

Memory can only be installed as a pair of matched dual inline memory modules (DIMMs). Both DIMMs in any pair must be identical to each other with respect to size, speed, type, and technology. Each pair does not have to be identical to any other pair. If you do not purchase memory through Cisco, you can use DIMM pairs from different manufacturers, if necessary, as long as they meet the following requirements:

- JEDEC standard PC2100.
- Registered (address/control bus delay registers at inputs and outputs).
- Double–Data Rate (DDR).
- Error–Correcting Code (ECC).
- 266 MHz (inherent to PC2100) data rate.
- CL2.5 (Column Address Strobe clock cycle latency value).
- 2.5Vdc.

The server supports up to six 2 GB memory modules, yielding a potential maximum of 12 GB. However, the operating system software delivered with your Cisco Unity system can physically address a maximum of 4 GB.

Install DIMMs in the MCS 7835H or MCS 7845H System Board

Use this procedure to install the DIMMs in the MCS 7835H or MCS 7845H system board.

1. Shut down the server according to the manufacturer instructions.
2. Extend the server from the rack, if applicable.
3. Remove the access panel.
4. Open the DIMM slot latches.
5. Install the DIMM pair(s) in the proper location.

DIMMs must be installed into both slots in a single bank. Install DIMMs in sequential order (DIMM slots are numbered sequentially 1 through 6 and paired banks are identified by the letters A, B, and C.) If you are upgrading memory, install DIMM pairs into banks starting with bank B.

6. Reinstall the access panel.
7. If you are installing DIMMS for online spare memory, use the RSBUS to configure online spare memory support.

Install Replacement SDRAM Memory Module(s) in an MCS 7855I–n.n–ECS1, MCS 7855I–n.n–ECS2, MCS 7865I–n.n–ECS1, or MCS 7865I–n.n–ECS2 Server

Suitable memory Field Replacement Units (FRU) can be purchased from Cisco using the following part numbers:

- MEM–7835H–2.4–256=
- MEM–7835H–2.4–512=

Memory can only be installed as a pair or quad of the same size, speed, and type. To add 1 GB of memory using two 512 MB DIMMs or 2 GB using two 1 GB DIMMs, two of the four currently installed 512 MB DIMMs must be physically relocated to other DIMM slots on the server memory card. The four currently installed DIMMs need to be relocated because they are configured as a single 4–way interleaved memory set, and must now be reconfigured as two 2–way interleaved sets. The memory controller cannot support both 2–way and 4–way interleaving simultaneously. The server memory card provides a label on the metal bracket depicting the memory connector slots and their purpose.

If you are installing four additional 512 MB DIMMs to configure the system as 4 GB, then the four new DIMMs can be added without any change to the interleaved memory set of the existing four DIMMs. In either case, the new PC2100 parts cannot be used in either a 2–way or 4–way interleaved set with any existing PC1600 DIMMs. The new PC2100 parts will act as PC1600 parts in the server. If you want to use a hot spare memory configuration, then you cannot mix PC1600 and PC2100 technologies in the server.

If you do not purchase memory through Cisco, you can use DIMMs from different manufacturers, if necessary, as long as they meet the following requirements:

- From the same manufacturer for any pair or quad interleaved set.
- JEDEC standard PC1600 or PC2100.
- Registered (address/control bus delay registers at inputs and outputs).
- Double–Data Rate (DDR).
- Error–Correcting Code (ECC).
- 200 MHz (inherent to PC1600) or 266 MHz (inherent to PC2100) data rate.
- CL2.5 (Column Address Strobe clock cycle latency value).
- 2.5Vdc.

The server supports up to twelve 2 GB memory modules, yielding a potential maximum of 24 GB. However, the operating system software delivered with your Cisco Unity system can physically address a maximum of 4 GB. Physical Address Extension (PAE) is not currently supported for your Cisco Unity server.

Install DIMMs in the MCS 7855I or MCS 7865I System Board

Use this procedure to install the DIMMs in the MCS 7855I or MCS 7865I system board.

1. Read the manufacturer safety information, static–sensitivity, and installation guidelines that were included with the DIMM pair(s).
2. Turn off the server and disconnect all power cords and cables.
3. Remove the top cover.
4. Remove the air baffle.
5. Remove the memory board assembly from the server.
6. Open the memory board airflow guide.
7. Determine the location for the new DIMM pair(s) or quad(s):

- ◆ Two-way interleaving first pair in D2 and D8, second pair in D4 and D10, and third pair in D6 and D12.
 - ◆ Four-way interleaving first quad in D2, D8, D1, D7, second quad in D4, D10, D3, D9, and third quad in D6, D12, D5, D11.
8. Open the retaining clips, and install the DIMM pair(s) or quad(s) in the proper connectors.
 9. Confirm that the retaining clips are completely closed.
 10. Close the memory board airflow guide.
 11. Reinstall the memory board assembly.
 12. Reinstall the air baffle.
 13. Use the Configuration Setup Utility program Memory Settings menu to enable replacement memory, if applicable.
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Related Information

- **Voice Technology Support**
 - **Voice and IP Communications Product Support**
 - **Recommended Reading: Troubleshooting Cisco IP Telephony Cisco Press, ISBN 1587050757**
 - **Technical Support – Cisco Systems**
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